

CLAIM AMENDMENTS

The following is a complete listing of the pending claims:

CLAIMS

1. (Currently amended) A method for detecting a positioning signal, the positioning signal being divided into segments, comprising:

processing each segment in a subset of the segments by:

correlating the segment with a reference signal of a selected code phase and frequency to obtain a complex correlation value;

processing the complex correlation value to provide a non-coherent correlation value;

summing the non-coherent correlation value with a previously-calculated non-coherent integration sum to provide a current non-coherent integration sum;

if the current non-coherent integration sum is less than a predetermined minimum, assigning the current non-coherent integration sum to the predetermined minimum; and

~~upon processing of a sufficient number of the segments,~~ processing the current non-coherent integration sum to determine whether the positioning signal is detected according to the selected code phase and frequency.

2. (Previously presented) A method as in Claim 1, wherein processing the complex correlation value includes obtaining a modulus of the complex correlation value and reducing the modulus by a predetermined value.

3. (Previously presented) A method as in Claim 2, wherein the modulus is reduced by an expected mean value for a noise component in the positioning signal.

4. (Previously presented) A method as in Claim 3, wherein processing the complex correlation value includes quantizing the modulus.

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5. (Cancelled)

6. (Previously presented) A method as in Claim 1, wherein processing the current non-coherent integration sum includes comparing the current non-coherent integration sum to a predetermined threshold value.

7. (Currently amended) A method as in Claim 1, wherein the subset of segments comprises all of the segments in the positioning signal sufficient number of segments is reached if the current non-coherent integration sum exceeds a predetermined value.

8. (Cancelled)

9. (New) A method as in Claim 1, wherein a size of the subset of segments is less than all of the segments in the positioning signal, the size of the subset being determined by whether the current non-coherent integration sum exceeds a maximum value.